

5M-M20-10-S

Micro Focus Optics



FEATURES

Micro focus optics used for focussing the collimated radiation exiting a fiber collimator.

- Attachment optics for fiber collimators type 60FC with outer diameter Ø 12 mm
- Focal length f' = 20 mm
- AR Coating 630 980 nm
- Monochromatic correction

DESCRIPTION

The Micro Focus Optics type 5M-M20-10-S is used to generate a small laser spot from the collimated radiation of a fiber collimator.

The <u>size of the spot</u> and its <u>Rayleigh range</u> is determined by the fiber properties and by the focal lengths of the fiber collimator and of the micro focus optics. For single-mode fibers the Gaussian intensity distribution and beam shape are maintained.

It is designed for the fiber collimators series 60FC with an outer diameter Ø 12 mm.

Adjustment:

In order to change the working distance of the Micro Focus Optics the lens position of the adjacent collimator has to be readjusted.

Housing material:

As standard, the housing of the Micro Focus Optics is made of nickel silver.

For amagnetic fiber collimators Schäfter+Kirchhoff offers Micro Focus Optics with housings made of titanium.

TECHNICAL DATA

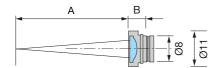
5M-M20-10-S

Series 5M

Order Code 5M-M20-10-S



| Focal length | 20 mm |
|---------------------------------------------------------|--------------------------------|
| Working distance A | 18 ± 0.1 mm |
| AR coating | 10 |
| Wavelength range | 630 - 980 nm |
| Lens type | Doublet optics |
| Correction | Monochromatic |
| Numerical aperture | 0.13 |
| Clear aperture | Ø 5.8 mm |
| Outer diameter | Ø 11 mm |
| Length B | 4.5 mm |
| System mount | Ø 8 mm |
| Front fitting | - |
| Housing material | Nickel silver |
| Weight | 5 g |
| RoHS compliant | |
| Dimensions (for a complete dimensional drawing please r | efer to the downloads section) |



DOWNLOADS



921120249000.pdf (Dimensional drawing)



Coating-1000-25.pdf (Coating curve)



ACCESSORIES

9D-12 Screwdriver WS 1.2

RELATED PRODUCTS

MICRO FOCUS OPTICS for transforming a collimated beam into a micro focus

SERIES 5M sp

ATTACHMENT OPTICS to attach in the front of collimators with system mount

SERIES 5 Ø 8 mm

This is a printout of the page https://sukhamburg.com/products/details/5M-M20-10-S from 5/6/2024

CONTACT

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